

TA-DS70

SERVICE MANUAL

AEP Model
UK Model

This set is the amplifier
Section in XO-70/D70CD.



SPECIFICATIONS

Amplifier

Continuous RMS power output (Continental European model)
55 W + 55 W (at 1kHz, 5% T.H.D.)

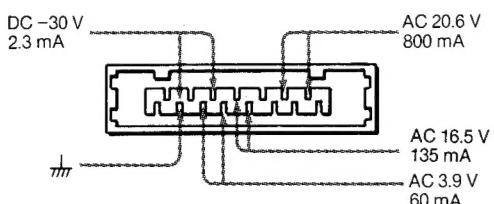
Inputs

	Jack type	Sensitivity	Impedance
PHONO IN	Phono	2 mV	50 kohms
VIDEO/DAT IN	Phono	150 mV	50 kohms
CD IN	Phono	150 mV	50 kohms
MIC	Phone	2 mV	50 kohms

Outputs

	Jack type	Voltage	Impedance
VIDEO/DAT	Phono	150 mV	470 ohms
SURROUND SPEAKER	Phono	Accepts speakers of 6 ohms to 16 ohms.	
HEADPHONES	Stereo phone	Accepts headphones of 8 ohms or more.	

SYSTEM CONTROL connector: SYSTEM CONTROL 1: 15-pin
SYSTEM CONTROL 2: 15-pin



DOL +6dB (100 Hz)
Dimensions Approx. 355 x 117.1 x 330 mm (w/h/d)
(14 x 4 5/8 x 13 inches)
Weight Approx. 6.4 kg (14 lb 2 oz)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

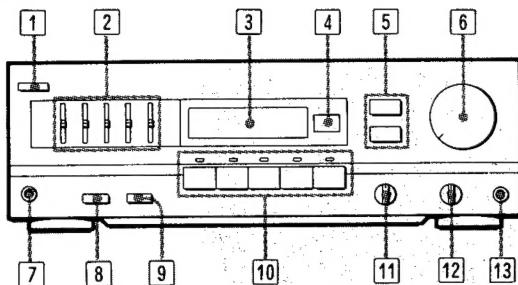
INTEGRATED STEREO AMPLIFIER
SONY®



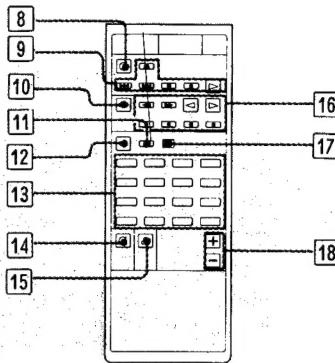
SECTION 1 GENERAL

1-1. PARTS IDENTIFICATION

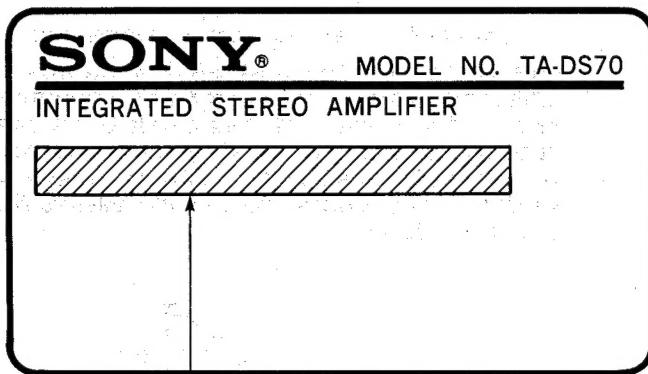
Amplifier



Remote Commander



1-2. MODEL IDENTIFICATION (Specification Label)



AEP MODEL
Italian (IT) MODEL } : AC 240V~50/60Hz 110W
West Germany (WG) MODEL }
UK MODEL : AC 240V~50/60Hz 240W

The function of the CD player operation buttons, TAPE deck operation buttons and TUNER buttons are the same as those on each unit.

8 CD button

9 CD player operation buttons

▲ OPEN/CLOSE

◀◀, ▶▶AMS (Automatic Music Sensor)

■ Pause, ■ Stop, ▶ Play

10 TAPE button

11 BAND selector

12 TUNER button

13 Numeric buttons (1 to 12 for tuner/1 to 16 for CD player)

14 PHONO button

15 VIDEO/DAT (digital audio tape) button

16 TAPE deck operation buttons

Note on TAPE deck operation buttons

When cassettes are loaded in both decks, the tape deck operation buttons can operate only deck B.

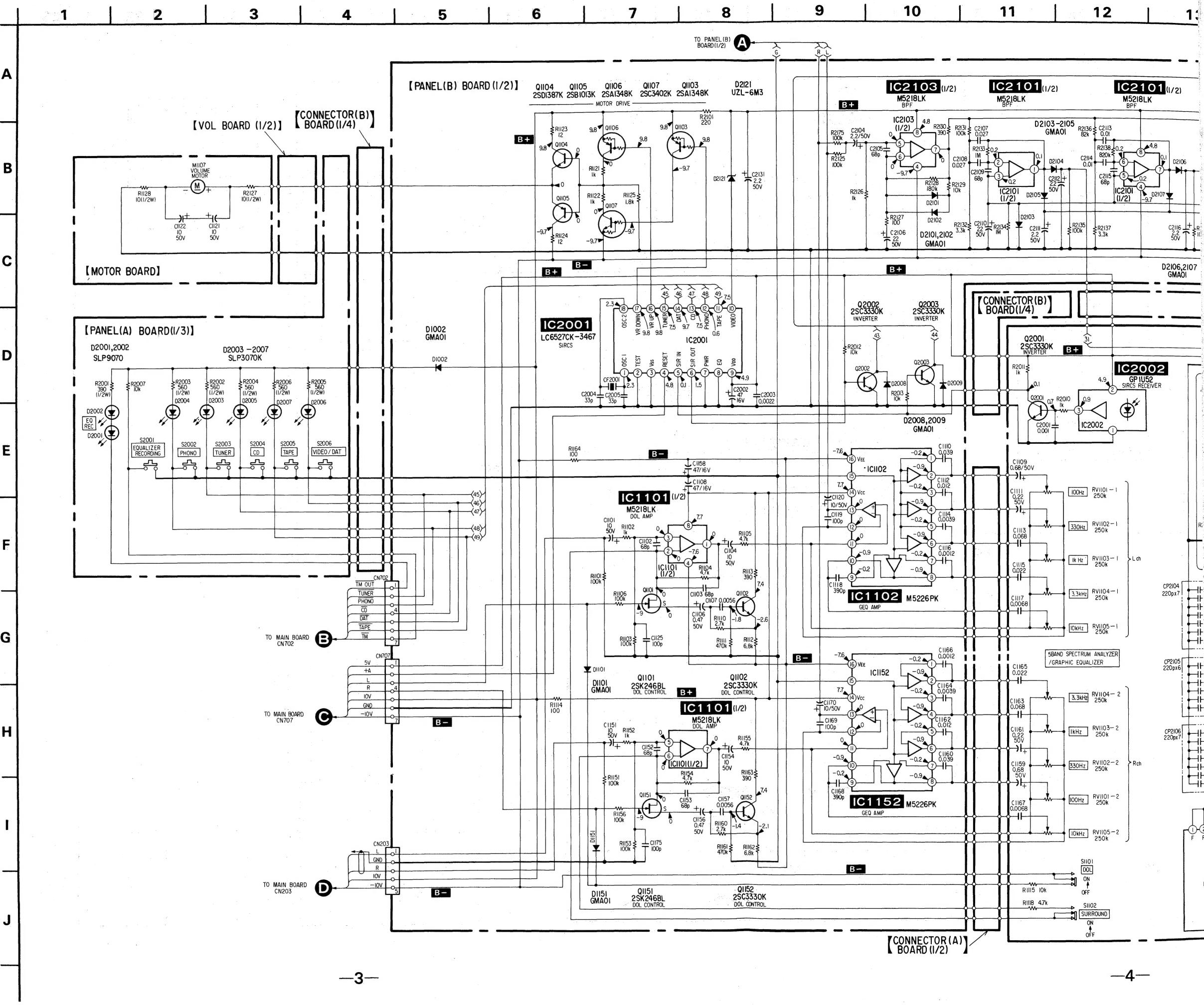
When one cassette is loaded, these buttons can operate only the deck with the cassette.

17 TUNER/CD selector

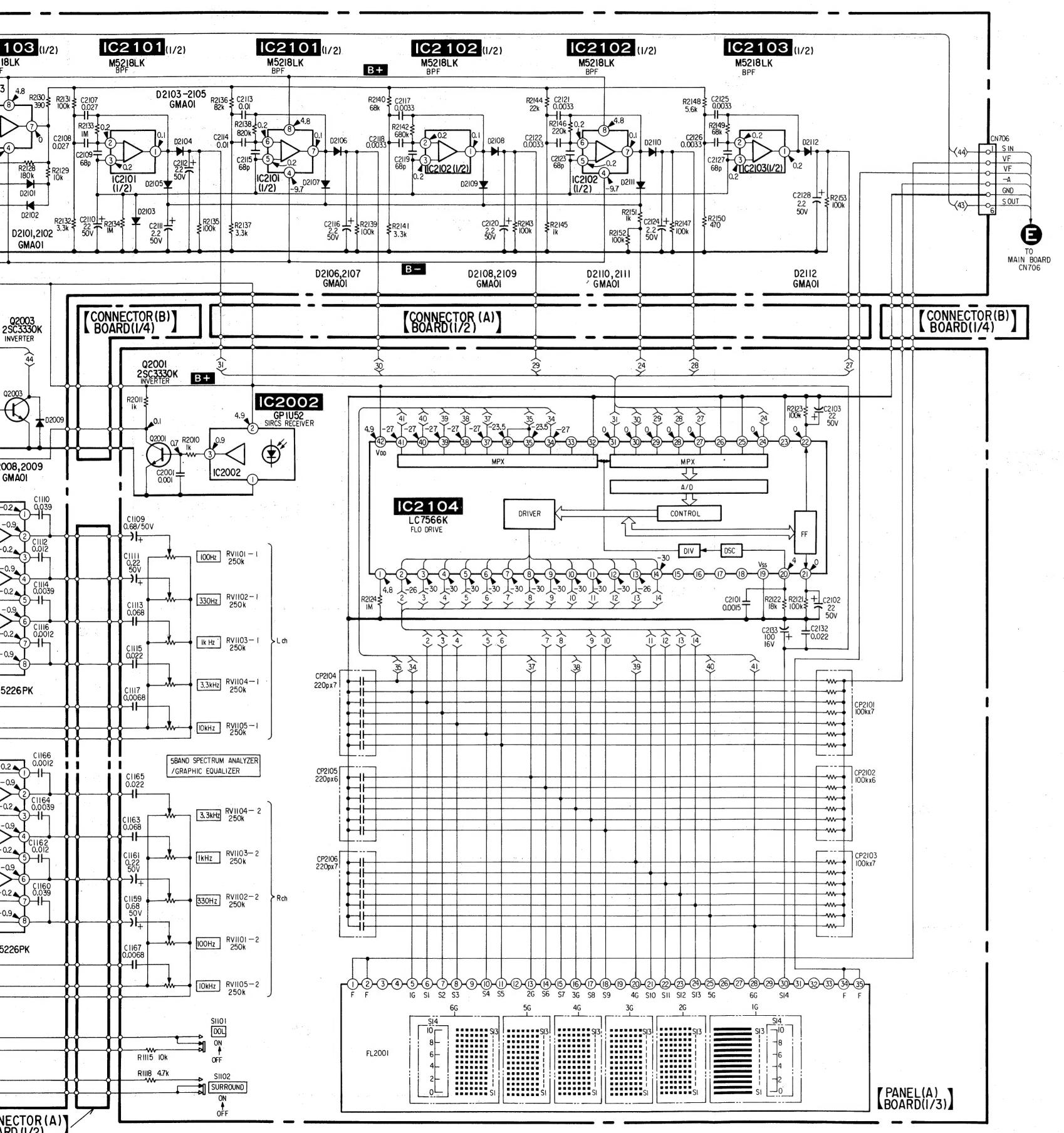
TUNER: Numeric buttons (1–12) can be used for preset tuning on the tuner.

CD: Numeric buttons (1–16) can be used for direct music selection on the CD player.

18 VOLUME +/- buttons



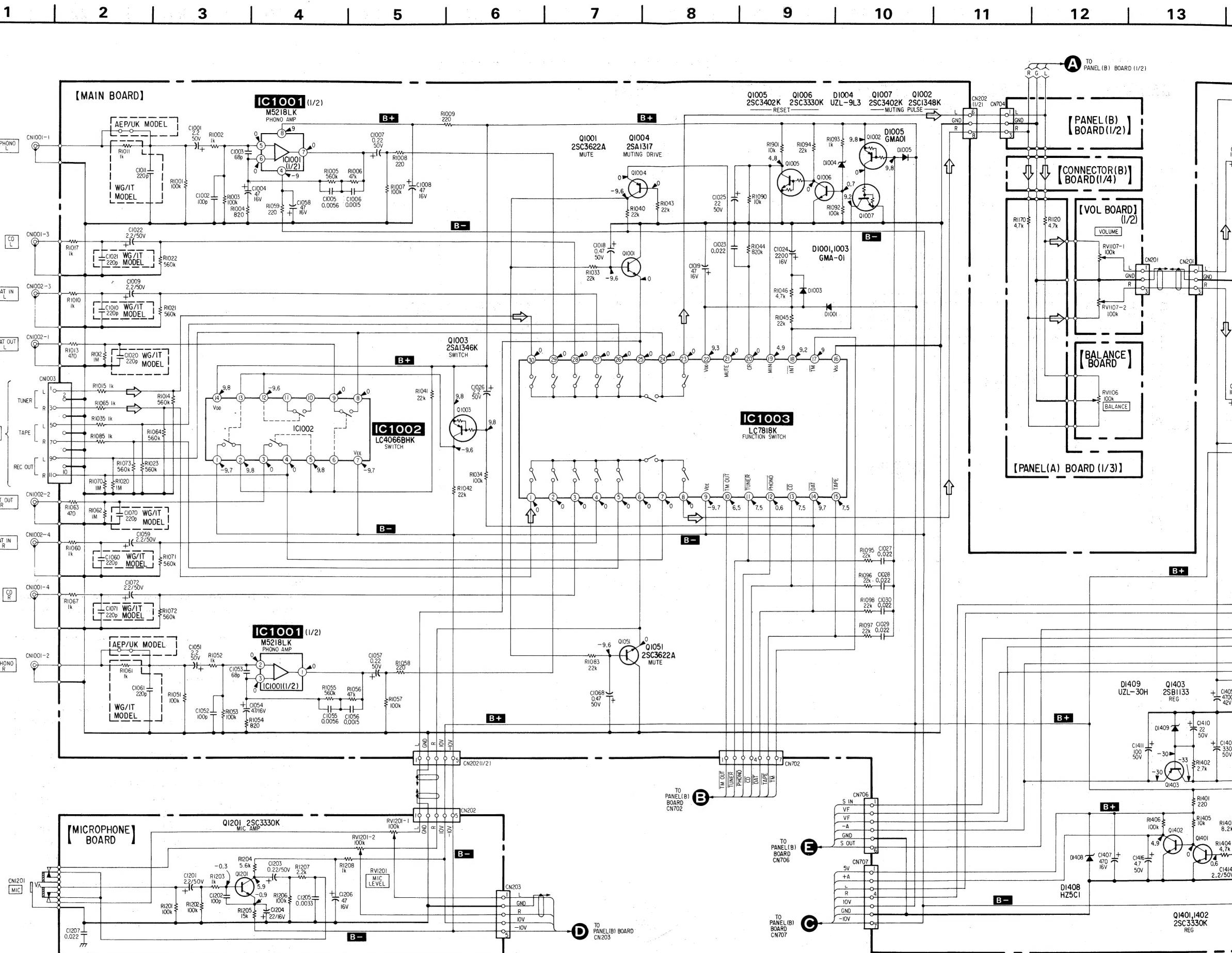
0 11 12 13 14 15 16 17 18 19 20 21 22 23

**Note:**

- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4$ W or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.
- Switch

Ref. No.	Switch	Position
S1101	DOL	OFF
S1102	SURROUND	OFF
S1401	POWER	ON
S2001	EQUALIZER RECORDING	OFF
S2002	PHONO	OFF
S2003	TUNER	OFF
S2004	CD	OFF
S2005	TAPE	OFF
S2006	VIDEO/DAT	OFF

- Voltage and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (50 k Ω /V). Voltage variations may be noted due to normal production tolerances.
- Signal path.
→ : FM



Note: The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

WG : West Germany model
IT : Italian model

10

11

12

13

4

15

16

17

1

- 10 -

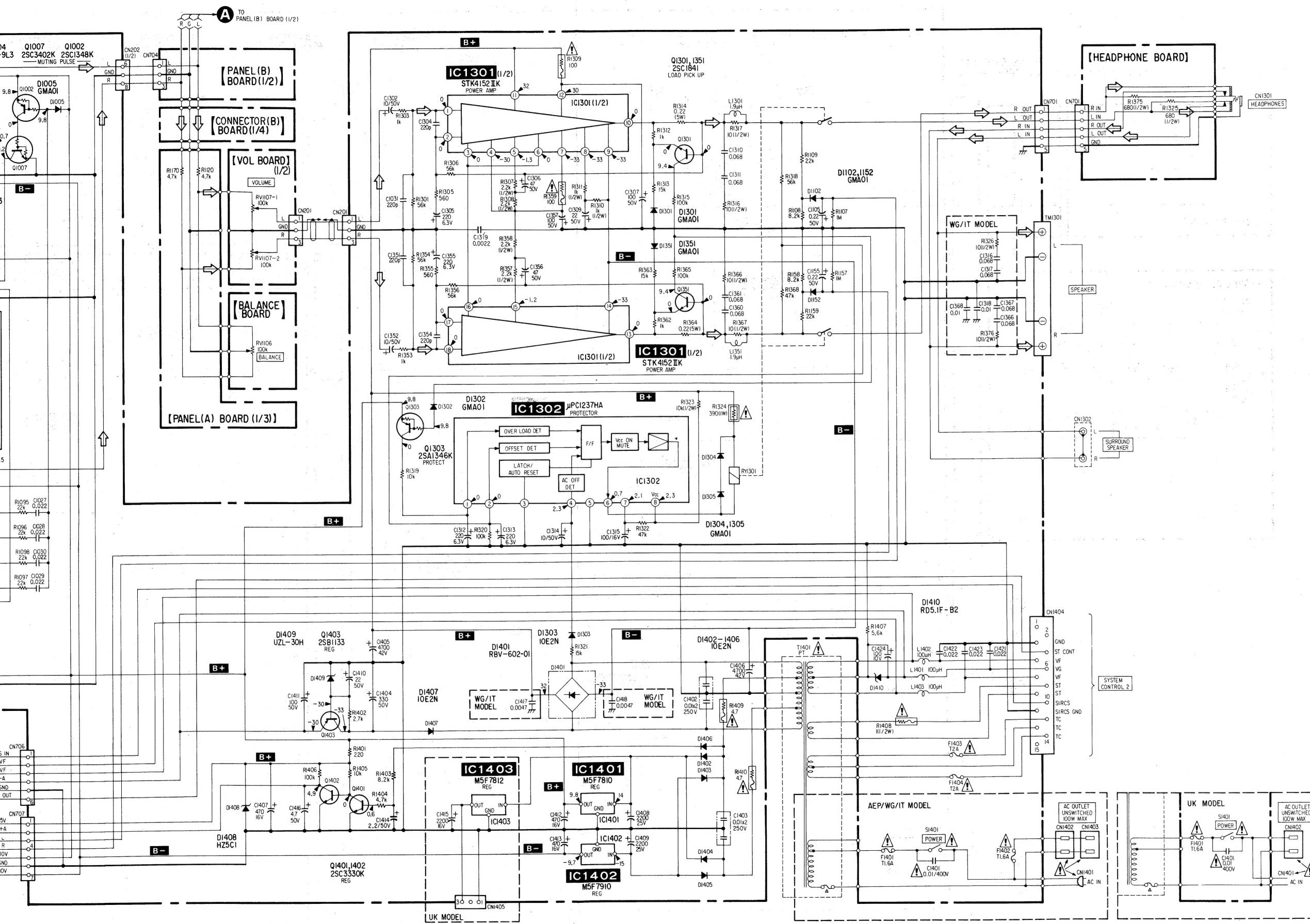
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10

20

24

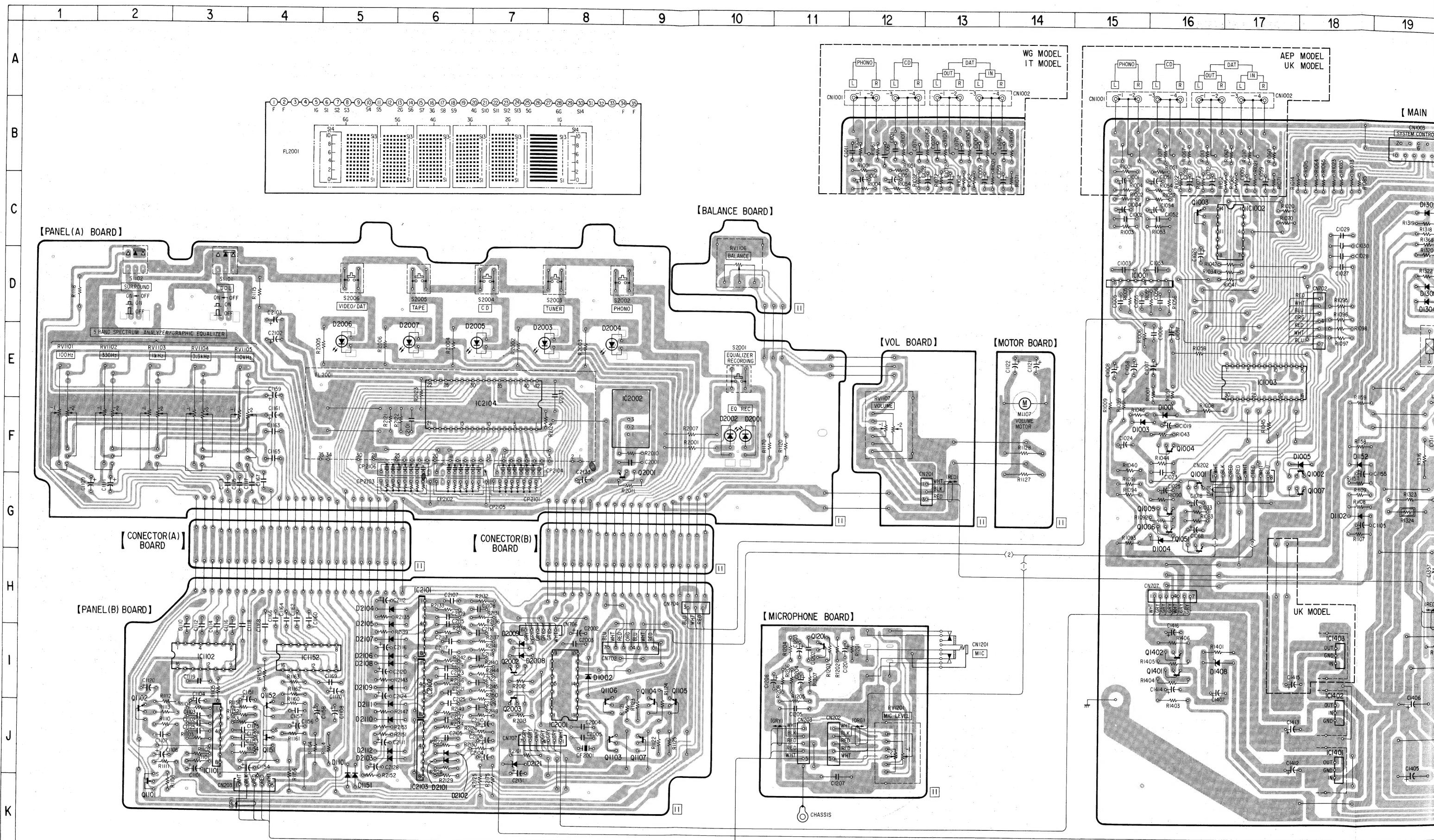


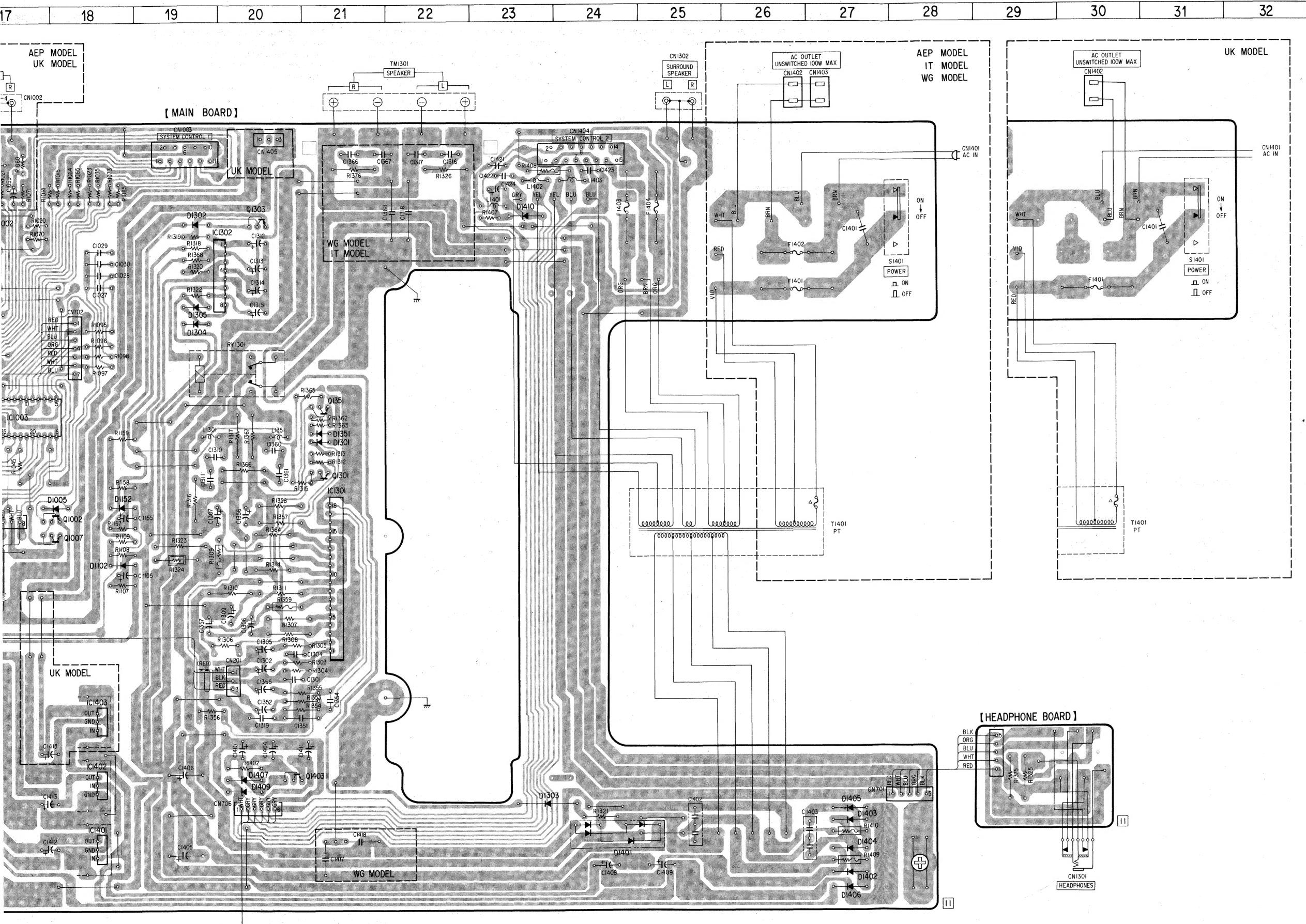
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-8-

2-3. PRINTED WIRING BOARDS

• Refer to page 13 for Semiconductor Lead Layouts.

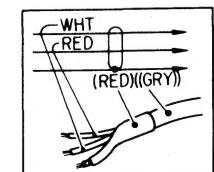


**Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D1001	F-16	IC1001	D-15
D1002	I-8	IC1002	C-17
D1003	F-15	IC1003	E-17
D1004	G-16	IC1101	J-3
D1005	F-18	IC1102	I-3
D1101	J-5	IC1152	I-4
D1102	G-18	IC1301	G-21
D1151	K-5	IC1302	C-20
D1152	F-18	IC1401	J-18
D1301	E-21	IC1402	J-18
D1302	C-19	IC1403	I-18
D1303	J-23	IC2001	I-8
D1304	D-19	IC2002	F-9
D1305	D-19	IC2101	H-6
D1351	E-21	IC2102	I-6
D1401	J-24	IC2103	J-6
D1402	K-27	IC2104	F-7
D1403	J-27		
D1404	J-27	Q1001	F-16
D1405	J-27	Q1002	F-18
D1406	K-27	Q1003	C-16
D1407	I-20	Q1004	F-16
D1408	I-16	Q1005	G-16
D1409	J-20	Q1006	G-16
D1410	C-23	Q1007	G-18
D2001	F-10	Q1051	G-16
D2002	F-10	Q1101	K-2
D2003	E-7	Q1102	J-2
D2004	E-8	Q1103	J-8
D2005	E-7	Q1104	J-9
D2006	E-5	Q1105	J-9
D2007	E-6	Q1106	J-8
D2008	I-7	Q1107	J-9
D2009	I-7	Q1151	J-4
D2101	J-6	Q1152	J-4
D2102	J-6	Q1201	I-11
D2103	J-5	Q1301	F-21
D2104	H-5	Q1303	C-20
D2105	H-5	Q1351	E-21
D2106	I-5	Q1401	I-16
D2107	I-5	Q1402	I-16
D2108	I-5	Q1403	I-20
D2109	I-5	Q2001	F-9
D2110	J-5	Q2002	I-7
D2111	J-5	Q2003	I-7
D2112	J-5		
D2121	J-7		

Note:

- Color code or sleeving over the end of the jacket.

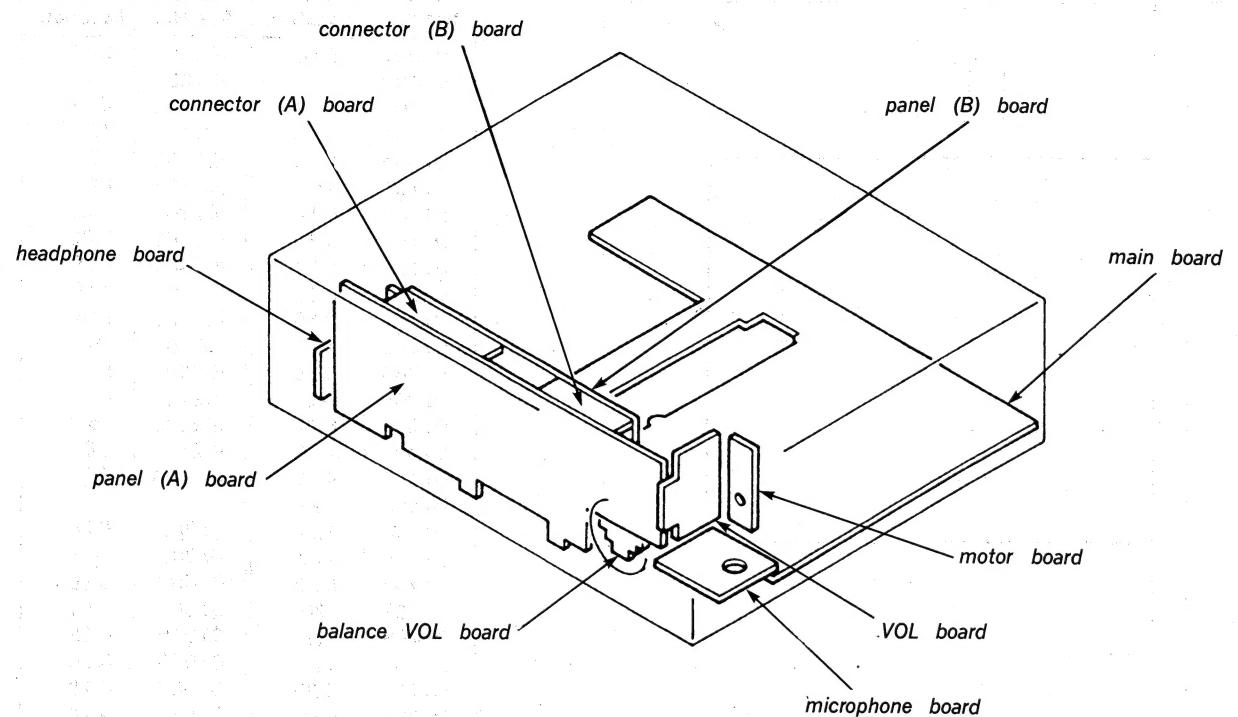


- : parts extracted from the component side.
- WG : West Germany model
- IT : Italian model

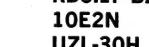
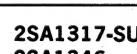
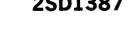
SECTION 3

EXPLODED VIEWS

2-4. CIRCUIT BOARDS LOCATION



2-5. SEMICONDUCTOR LEAD LAYOUTS

LC4066BH	M5F7810 M5F7910	STK4152II	2SB1133-R	CMA01 HZ5C1 RD5.1F-B2 10E2N UZL-30H UZL-6M3 UZL-9L3
 <p>14 13 12 11 10 9 8 1 2 3 4 5 6 7 (Top view)</p>	 <p>IN GND OUT</p>	 <p>12 n</p>	 <p>B C E</p>	
LC6527CK-3467	M5218L μPC1237HA	2SA1317-SU 2SA1346 2SA1348 2SC3330S 2SC3402	2SC3622A-L	RBV-602-01
 <p>18 10 9 (Top view)</p>	 <p>1 2 3 4 5 6 7 8</p>		 <p>E B C</p>	 <p>+ ~ ~ - + ~ ~ -</p>
LC7566	M5226P	2SK246BL		
 <p>42 40 35 30 25 22 1 5 10 15 20 21 (Top view)</p>	 <p>16 15 14 13 12 11 10 9 1 2 3 4 5 6 7 8 (Top view)</p>	 <p>E C B</p>		
LC7818		2SB1013 2SC1841 2SD1387		
 <p>30 16 1 15 (Top view)</p>				
		 <p>E C B</p>		
				SLP3070K SLP9070
				 <p>S G D</p>

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked “★” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

- Color Indication of Appearance Parts

(RED) ... KNOB, BALANCE (WHITE)

(FED, WWW.FED, BALANCE (WWW))
↑ ↑

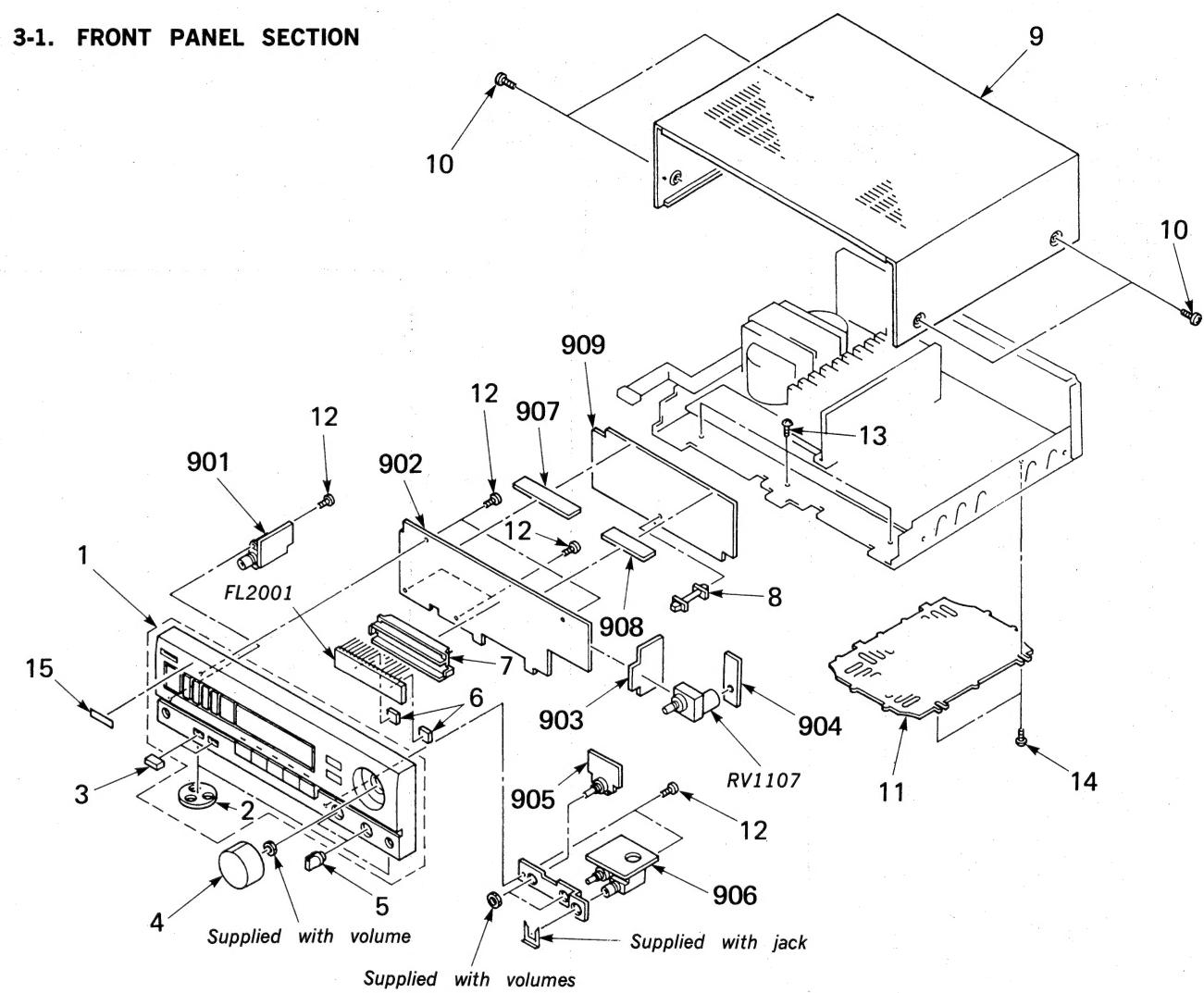
Cabinet's Color **Parts Color**

The components identified by mark  or dotted line with mark  are critical for safety.
Replace only with part number specified.

WG : West Germany model

T : Itarian model

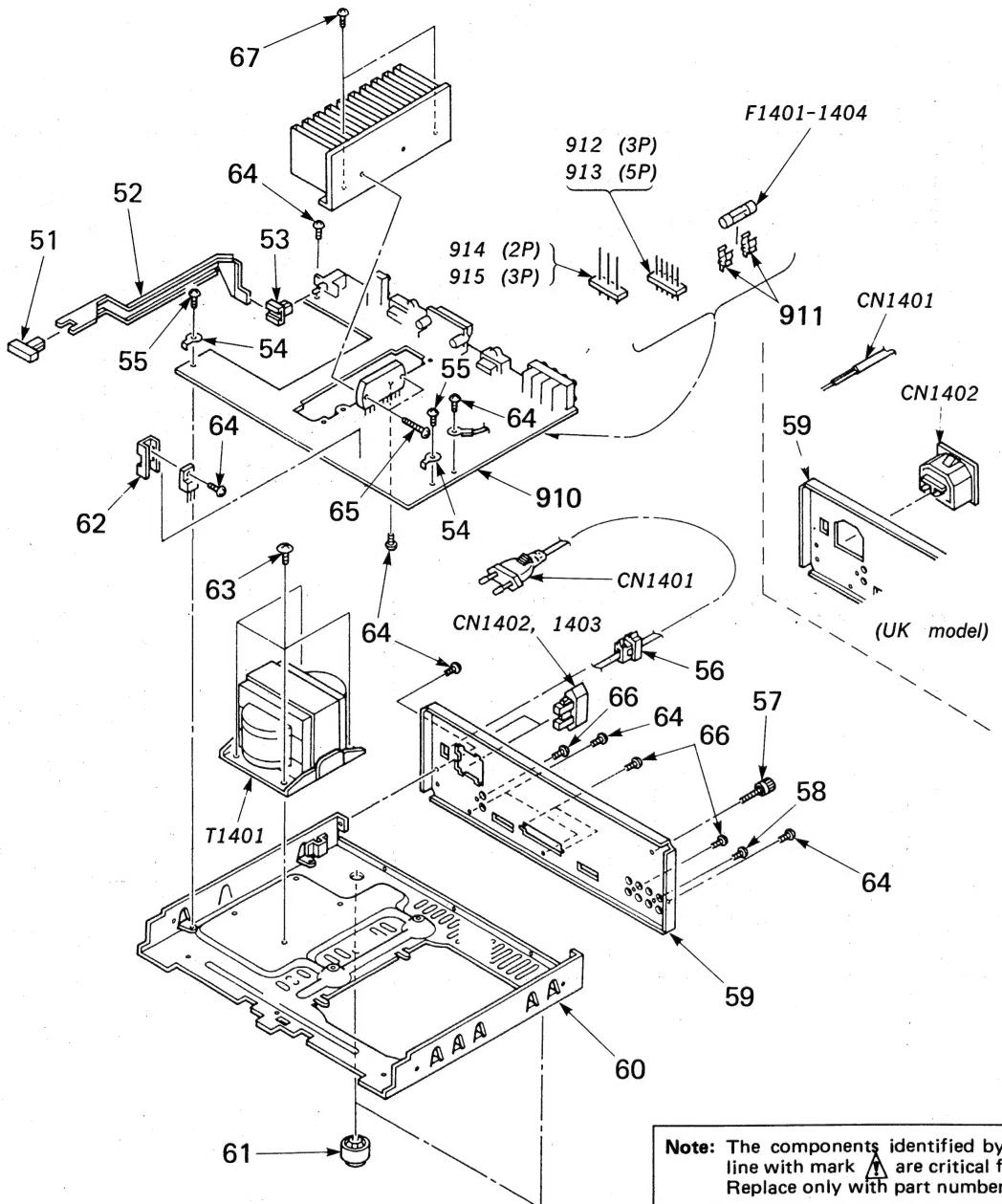
3-1. FRONT PANEL SECTION



Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
1	X-4917-244-1	(AEP, UK, IT)....PANEL ASSY, FRONT	2	11	*X-4917-246-1	CHASSIS ASSY	
1	X-4917-245-1	(WG)....PANEL ASSY, FRONT	2	12	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
2	4-921-906-01	FELT		13	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
3	4-918-062-62	(AEP, UK, IT)....BUTTON (G) (SURROUND, DOL)		14	7-682-548-04	SCREW +BVTT 3X8 (S)	
3	4-918-062-71	(WG)....BUTTON (G) (SURROUND, DOL)		15	3-701-690-00	(UK)....LABEL (MADE IN JAPAN)	
4	4-925-121-11	(WG)....KNOB (VOLUME)		901	*1-627-332-11	PC BOARD, HEADPHONE	
4	4-925-121-21	(AEK, UK, IT)....KNOB (V2) (VOLUME)		902	*1-627-333-11	PC BOARD, PANEL (A)	
5	4-908-097-11	(AEK, UK, IT)....KNOB (BALANCE, MIC LEVEL)		903	*1-627-336-11	PC BOARD, VOL	
5	4-908-097-21	(WG)....KNOB (BALANCE, MIC LEVEL)		904	*1-627-337-11	PC BOARD, MOTOR	
6	*4-921-941-21	CUSHION (FL)		905	*1-627-338-11	PC BOARD, BALANCE VOL	
7	*4-923-103-01	HOLDER, FL TUBE		906	*1-627-335-11	PC BOARD, MICROPHONE	
8	*3-661-764-00	HOLDER, PCB		907	*1-627-339-11	PC BOARD, CONNECTOR (A)	
9	4-919-378-21	(AEP, UK, IT)....CASE		908	*1-627-340-11	PC BOARD, CONNECTOR (B)	
9	4-919-378-31	(WG)....CASE		909	*A-4375-405-A	MOUNTED PCB, PANEL (B)	
10	3-704-366-01	SCREW (CASE) (M3X8)					

SECTION 4 ELECTRICAL PARTS LIST

3-2. CHASSIS ASSEMBLY


NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μ F, PF: $\mu\mu$ F.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORS

In each case, U: μ , for example:
UA...: μ A..., UPA...: μ PA...,
UPC...: μ PC, UPD...: μ PD...

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety.
Replace only with part number specified.

WG : West Germany model

IT : Itarin model

Ref.No	Part No.	Description
901	*1-627-332-11	PC BOARD, HEADPHONE
902	*1-627-333-11	PC BOARD, PANEL (A)
903	*1-627-336-11	PC BOARD, VOL
904	*1-627-337-11	PC BOARD, MOTOR
905	*1-627-338-11	PC BOARD, BALANCE VOL
906	*1-627-335-11	PC BOARD, MICROPHONE
907	*1-627-339-11	PC BOARD, CONNECTOR (A)
908	*1-627-340-11	PC BOARD, CONNECTOR (B)
909	*A-4375-405-A	MOUNTED PCB, PANEL (B)
910	*A-4388-769-A (UK)....MOUNTED PCB, MAIN	
910	*A-4388-770-A (AEP)....MOUNTED PCB, MAIN	
910	*A-4388-771-A (WG, IT)....MOUNTED PCB, MAIN	
911	1-533-183-11	HOLDER, FUSE
912	*1-535-116-00	TERMINAL
913	*1-535-118-00	TERMINAL
914	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P
915	*1-535-140-00	BASE POST 22MM (10MM PITCH) 3P

CAPACITOR

C1001	1-124-925-11	ELECT	2.2MF	20%	50V
C1002	1-162-282-31	CERAMIC	100PF	10%	50V
C1003	1-162-219-31	CERAMIC	68PF	5%	50V
C1004	1-124-477-11	ELECT	47MF	20%	16V
C1005	1-130-480-00	MYLAR	0.0056MF	5%	50V
C1006	1-130-473-00	MYLAR	0.0015MF	5%	50V
C1007	1-124-464-11	ELECT	0.22MF	20%	50V
C1008	1-124-477-11	ELECT	47MF	20%	16V
C1009	1-124-925-11	ELECT	2.2MF	20%	50V
C1010	1-162-286-31	(WG, IT)....CERAMIC	220PF	10%	50V

CAPACITOR

C1011	1-162-286-31	(WG, IT)....CERAMIC	220PF	10%	50V
C1018	1-124-902-00	ELECT	0.47MF	20%	50V
C1019	1-124-477-11	ELECT	47MF	20%	16V
C1020	1-162-286-31	(WG, IT)....CERAMIC	220PF	10%	50V
C1021	1-162-286-31	(WG, IT)....CERAMIC	220PF	10%	50V
C1022	1-124-925-11	ELECT	2.2MF	20%	50V
C1023	1-161-494-00	CERAMIC	0.022MF	25V	
C1024	1-124-556-11	ELECT	220MF	20%	16V
C1025	1-124-908-11	ELECT	22MF	20%	50V
C1026	1-124-925-11	ELECT	2.2MF	20%	50V
C1027	1-161-494-00	CERAMIC	0.022MF	25V	
C1028	1-161-494-00	CERAMIC	0.022MF	25V	
C1029	1-161-494-00	CERAMIC	0.022MF	25V	
C1030	1-161-494-00	CERAMIC	0.022MF	25V	
C1051	1-124-925-11	ELECT	2.2MF	20%	50V
C1052	1-162-282-31	CERAMIC	100PF	10%	50V
C1053	1-162-219-31	CERAMIC	68PF	5%	50V
C1054	1-124-477-11	ELECT	47MF	20%	16V
C1055	1-130-480-00	MYLAR	0.0056MF	5%	50V
C1056	1-130-473-00	MYLAR	0.0015MF	5%	50V

CAPACITOR

C1157	1-130-480-00	MYLAR	0.0056MF	5%	50V
C1158	1-124-477-11	ELECT	47MF	20%	16V
C1159	1-124-254-00	ELECT	0.68MF	20%	50V
C1160	1-130-490-11	MYLAR	0.039MF	5%	50V
C1161	1-124-464-11	ELECT	0.22MF	20%	50V
C1162	1-130-484-00	MYLAR	0.012MF	5%	50V
C1163	1-130-493-00	MYLAR	0.068MF	5%	50V
C1164	1-130-478-00	MYLAR	0.039MF	5%	50V
C1165	1-130-487-00	MYLAR	0.022MF	5%	50V
C1166	1-130-472-00	MYLAR	0.012MF	5%	50V
C1167	1-161-329-00	CERAMIC	0.0068MF	20%	16V
C1168	1-162-289-31	CERAMIC	390PF	10%	50V
C1169	1-162-282-31	CERAMIC	100PF	10%	50V
C1170	1-123-875-11	ELECT	10MF	20%	50V
C1175	1-162-282-31	CERAMIC	100PF	10%	50V

C1201	1-124-257-00	ELECT	2.2MF	20%	50V
C1202	1-162-282-31	CERAMIC	100PF	10%	50V

C1201	1-124-257-00	ELECT	2.2MF	20%	50V
C1202	1-162-282-31	CERAMIC	100PF	10%	50V

Ref.No	Part No.	Description	Remarks	Ref.No	Part No.	Description	Remarks
51	4-923-162-01	(AEP, UK, IT)....BUTTON (P) (POWER)		67	7-682-549-04	SCREW +BVTT 3X10 (S)	
51	4-923-162-11	(WG)....BUTTON (P) (POWER)		910	*A-4388-770-A (AEP)....MOUNTED PCB, MAIN		
52	*4-925-151-01	JOINT		910	*A-4388-769-A (UK)....MOUNTED PCB, MAIN		
53	4-866-342-00	JOINT (B), KNOB		910	*A-4388-771-A (WG, IT)....MOUNTED PCB, MAIN		
54	4-870-539-00	PLATE, GROUND		911	1-533-183-11	HOLDER, FUSE	
55	3-703-685-21	SCREW (+BV 3X8)		912	*1-535-116-00	TERMINAL	
56	*3-703-244-00	BUSHING (2104), CORD		913	*1-535-118-00	TERMINAL	
57	*3-706-165-00	(AEP, WG, IT)....SCREW		914	*1-535-139-00	BASE POST 22MM (10MM PITCH) 2P	
58	3-704-242-01	SCREW, TERMINAL + BVTP CLAW		915	*1-535-140-00	BASE POST 22MM (10MM PITCH) 3P	
59	*4-925-111-01	(AEP, IT)....PANEL, BACK		CN1401▲1-555-750-00	(AEP, WG, IT)....CORD, POWER		
59	*4-925-111-11	(WG)....PANEL, BACK		CN1401▲1-556-035-00	(UK)....CORD, POWER		

Ref.No	Part No.	Description				Ref.No	Part No.	Description			
C1203	1-124-464-11	ELECT	0.22MF	20%	50V	C2104	1-124-925-11	ELECT	2.2MF	20%	50V
C1204	1-124-234-00	ELECT	22MF	20%	16V	C2105	1-162-219-31	CERAMIC	68PF	5%	50V
C1205	1-161-327-00	CERAMIC	0.0033MF	20%	16V	C2106	1-124-908-11	ELECT	22MF	20%	50V
C1206	1-124-589-11	ELECT	47MF	20%	16V	C2107	1-130-488-00	MYLAR	0.027MF	5%	50V
C1207	1-162-596-00	CERAMIC	0.022MF		25V	C2108	1-130-488-00	MYLAR	0.027MF	5%	50V
C1301	1-162-286-31	CERAMIC	220PF	10%	50V	C2109	1-162-219-31	CERAMIC	68PF	5%	50V
C1302	1-123-875-11	ELECT	10MF	20%	50V	C2110	1-124-908-11	ELECT	22MF	20%	50V
C1304	1-162-286-31	CERAMIC	220PF	10%	50V	C2111	1-124-925-11	ELECT	2.2MF	20%	50V
C1305	1-126-176-11	ELECT	220MF	20%	6.3V	C2112	1-124-925-11	ELECT	2.2MF	20%	50V
C1306	1-124-910-11	ELECT	47MF	20%	50V	C2113	1-161-379-00	CERAMIC	0.01MF	20%	16V
C1307	1-124-122-11	ELECT	100MF	20%	50V	C2114	1-161-379-00	CERAMIC	0.01MF	20%	16V
C1309	1-124-908-11	ELECT	22MF	20%	50V	C2115	1-162-219-31	CERAMIC	68PF	5%	50V
C1310	1-130-493-00	MYLAR	0.068MF	5%	50V	C2116	1-124-925-11	ELECT	2.2MF	20%	50V
C1311	1-130-493-00	MYLAR	0.068MF	5%	50V	C2117	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C1312	1-126-176-11	ELECT	220MF	20%	6.3V	C2118	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C1313	1-126-176-11	ELECT	220MF	20%	6.3V	C2119	1-162-219-31	CERAMIC	68PF	5%	50V
C1314	1-123-875-11	ELECT	10MF	20%	50V	C2120	1-124-925-11	ELECT	2.2MF	20%	50V
C1315	1-126-101-11	ELECT	100MF	20%	16V	C2121	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C1316	1-130-493-00	(WG, IT)....MYLAR	0.068MF	5%	50V	C2122	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C1317	1-130-493-00	(WG, IT)....MYLAR	0.068MF	5%	50V	C2123	1-162-219-31	CERAMIC	68PF	5%	50V
C1318	1-161-379-00	(WG, IT)....CERAMIC	0.01MF	20%	16V	C2124	1-124-925-11	ELECT	2.2MF	20%	50V
C1319	1-161-494-00	CERAMIC	0.022MF		25V	C2125	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C1351	1-162-286-31	CERAMIC	220PF	10%	50V	C2126	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C1352	1-123-875-11	ELECT	10MF	20%	50V	C2127	1-162-219-31	CERAMIC	68PF	5%	50V
C1354	1-162-286-31	CERAMIC	220PF	10%	50V	C2128	1-124-925-11	ELECT	2.2MF	20%	50V
C1355	1-126-176-11	ELECT	220MF	20%	6.3V	C2131	1-124-925-11	ELECT	2.2MF	20%	50V
C1356	1-124-910-11	ELECT	47MF	20%	50V	C2132	1-161-494-00	CERAMIC	0.022MF		25V
C1357	1-124-122-11	ELECT	100MF	20%	50V	C2133	1-126-101-11	ELECT	100MF	20%	16V
C1358	1-130-495-00	MYLAR	0.1MF	5%	50V	CF2001	1-567-738-11	VIBRATOR, CERAMIC			
C1360	1-130-493-00	MYLAR	0.068MF	5%	50V	CN201	*1-564-506-11	PLUG, CONNECTOR 3P			
C1361	1-130-493-00	MYLAR	0.068MF	5%	50V	CN202	*1-564-511-41	PLUG, CONNECTOR 8P			
C1366	1-130-493-00	(WG, IT)....MYLAR	0.068MF	5%	50V	CN702	*1-564-510-11	PLUG, CONNECTOR 7P			
C1367	1-130-493-00	(WG, IT)....MYLAR	0.068MF	5%	50V	CN706	*1-564-340-51	PIN, CONNECTOR 6P			
C1368	1-161-379-00	(WG, IT)....CERAMIC	0.01MF	20%	16V	CN1001	1-565-258-11	JACK, PIN 4P (PHONO, CD)			
C1401	△1-161-744-00	CERAMIC	0.01MF		400V	CN1002	1-565-258-21	JACK, PIN 4P (DAT IN/OUT)			
C1402	1-102-355-00	CERAMIC	0.01MF		250V	CN1003	*1-566-858-11	SOCKET, CONNECTOR 11P (SYSTEM CONTROL 1)			
C1403	1-102-355-00	CERAMIC	0.01MF		250V	CN1201	1-565-117-11	JACK, LARGE TYPE (MIC)			
C1404	1-124-912-11	ELECT	330MF	20%	50V	CN1301	1-507-983-11	JACK (LARGE TYPE) (HEADPHONES)			
C1405	1-126-224-11	ELECT	4700MF	20%	42V	CN1302	1-565-352-21	JACK, PIN 2P (SURROUND SPEAKER)			
C1406	1-126-224-11	ELECT	4700MF	20%	42V	CN1401	△1-555-750-00	(AEP, WG, IT)....CORD, POWER			
C1407	1-126-103-11	ELECT	470MF	20%	16V	CN1401	△1-556-035-00	(UK)....CORD, POWER			
C1408	1-124-563-11	ELECT	2200MF	20%	25V	CN1402	△1-526-794-11	(AEP, WG, IT)....OUTLET, AC			
C1409	1-124-563-11	ELECT	2200MF	20%	25V	CN1402	△1-526-751-00	(UK)....OUTLET, AC			
C1410	1-124-908-11	ELECT	22MF	20%	50V	CN1403	△1-526-794-11	(AEP, WG, IT)....OUTLET, AC			
C1411	1-124-122-11	ELECT	100MF	20%	50V	CN1404	*1-566-859-11	SOCKET, CONNECTOR 15P (SYSTEM CONTROL 2)			
C1412	1-126-103-11	ELECT	470MF	20%	16V	CN1405	*1-566-210-11	(UK)....PIN, CONNECTOR 3P			
C1413	1-126-103-11	ELECT	470MF	20%	16V	CNJ707	*1-564-341-71	PIN, CONNECTOR 7P			
C1414	1-124-925-11	ELECT	2.2MF	20%	50V	CNP707	*1-566-452-11	HOUSING, CONNECTOR 7P			
C1415	1-124-556-11	(UK)....ELECT	2200MF	20%	16V	CP2101	1-233-081-11	COMPOSITION CIRCUIT BLOCK			
C1416	1-124-927-11	ELECT	4.7MF	20%	50V	CP2102	1-233-081-11	COMPOSITION CIRCUIT BLOCK			
C1417	1-161-377-00	(WG, IT)....CERAMIC	0.0047MF	30%	50V	CP2103	1-233-081-11	COMPOSITION CIRCUIT BLOCK			
C1418	1-161-377-00	(WG, IT)....CERAMIC	0.0047MF	30%	50V	CP2104	1-233-151-11	COMPOSITION CIRCUIT BLOCK			
C1421	1-101-005-00	CERAMIC	0.022MF		50V	CP2105	1-233-151-11	COMPOSITION CIRCUIT BLOCK			
C1422	1-101-005-00	CERAMIC	0.022MF		50V	CP2106	1-233-151-11	COMPOSITION CIRCUIT BLOCK			
C1423	1-101-005-00	CERAMIC	0.022MF		50V	D1001	1-806-937-11	DIODE GMA01			
C1424	1-126-101-11	ELECT	100MF	20%	10V	D1002	1-806-937-11	DIODE GMA01			
C2001	1-162-294-31	CERAMIC	0.001MF	10%	50V	D1003	1-806-937-11	DIODE GMA01			
C2002	1-124-477-11	ELECT	47MF	20%	16V	D1004	8-719-001-09	DIODE UZL-9L3			
C2003	1-161-494-00	CERAMIC	0.022MF		25V	D1005	1-806-937-11	DIODE GMA01			
C2004	1-162-211-31	CERAMIC	33PF	5%	50V	D1101	1-806-937-11	DIODE GMA01			
C2005	1-162-211-31	CERAMIC	33PF	5%	50V	D1102	1-806-937-11	DIODE GMA01			
C2006	1-162-289-31	CERAMIC	390PF	10%	50V	D1151	1-806-937-11	DIODE GMA01			
C2101	1-161-374-11	CERAMIC	0.0015MF	20%	16V						
C2102	1-124-908-11	ELECT	22MF	20%	50V						
C2103	1-124-908-11	ELECT	22MF	20%	50V						

Note: The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description
D1152	1-806-937-11	DIODE GMA01
D1301	1-806-937-11	DIODE GMA01
D1302	1-806-937-11	DIODE GMA01
D1303	8-719-200-77	DIODE 10E2N
D1304	1-806-937-11	DIODE GMA01
D1305	1-806-937-11	DIODE GMA01
D1351	1-806-937-11	DIODE GMA01
D1401	8-719-302-38	DIODE RBV-602-01
D1402	8-719-200-77	DIODE 10E2N
D1403	8-719-200-77	DIODE 10E2N
D1404	8-719-200-77	DIODE 10E2N
D1405	8-719-200-77	DIODE 10E2N
D1406	8-719-200-77	DIODE 10E2N
D1407	8-719-200-77	DIODE 10E2N
D1408	8-719-911-50	DIODE HZC1
D1409	8-719-002-57	DIODE UZL-30H
D1410	8-719-160-23	DIODE RD51F-B2
D2001	1-807-689-11	DIODE SLP9070
D2002	1-807-689-11	DIODE SLP9070
D2003	8-719-969-90	DIODE SLP3070K
D2004	8-719-969-90	DIODE SLP3070K
D2005	8-719-969-90	DIODE SLP3070K
D2006	8-719-969-90	DIODE SLP3070K
D2007	8-719-969-90	DIODE SLP3070K
D2008	1-806-937-11	DIODE GMA01
D2009	1-806-937-11	DIODE GMA01
D2101	1-806-937-11	DIODE GMA01
D2102	1-806-937-11	DIODE GMA01
D2103	1-806-937-11	DIODE GMA01
D2104	1-806-937-11	DIODE GMA01
D2105	1-806-937-11	DIODE GMA01
D2106	1-806-937-11	DIODE GMA01
D2107	1-806-937-11	DIODE GMA01
D2108	1-806-937-11	DIODE GMA01
D2109	1-806-937-11	DIODE GMA01
D2110	1-806-937-11	DIODE GMA01
D2111	1-806-937-11	DIODE GMA01
D2112	1-806-937-11	DIODE GMA01
D2121	8-719-000-63	DIODE UZL-6M3
F1401 Δ	1-532-259-00	FUSE, TIME-LAG
F1402 Δ	1-532-259-00	FUSE, TIME-LAG
F1403 Δ	1-532-203-00	FUSE, TIME-LAG
F1404 Δ	1-532-203-00	FUSE, TIME-LAG
FL2001	1-519-441-11	INDICATOR TUBE, FLUORESCENT
IC1001	8-759-600-02	IC M5218LK
IC1002	8-759-800-37	IC LC4066BH
IC1003	8-759-802-52	IC LC7818
IC1101	8-759-600-02	IC M5218L
IC1102	8-759-602-04	IC M5226P
IC1152	8-759-602-04	IC M5226P
IC1301	8-749-941-52	IC STK4152II
IC1302	8-759-111-68	IC UPC1237HA
IC1401	8-759-604-32	IC M5F7810
IC1402	8-759-604-50	IC M5F7910
IC1403	8-759-604-33	(UK)...IC M5F7812
IC2001	8-759-800-07	IC LC6527CK-3467
IC2002	8-749-920-03	IC GP1U52
IC2101	8-759-600-02	IC M5218L
IC2102	8-759-600-02	IC M5218L
IC2103	8-759-600-02	IC M5218L
IC2104	8-759-820-07	IC LC7566
L1301	*1-420-872-00	COIL, AIR CORE (1.9UH)
L1351	*1-420-872-00	COIL, AIR CORE (1.9UH)
L1401	1-410-564-11	INDUCTOR 100UH

Ref.No	Part No.	Description
L1402	1-410-564-11	INDUCTOR 100UH
L1403	1-410-564-11	INDUCTOR 100UH
M1107	1-238-079-11	RES, VAR, CARBON (MOTOR) 100KX2
Q1001	8-729-107-98	TRANSISTOR 2SC3622A-L
Q1002	9-986-159-01	TRANSISTOR 2SA1348
Q1003	8-729-806-16	TRANSISTOR 2SA1346
Q1004	8-729-820-10	TRANSISTOR 2SA1317-SU
Q1005	8-729-806-28	TRANSISTOR 2SC3402
Q1006	8-729-820-23	TRANSISTOR 2SC3330S
Q1007	8-729-806-28	TRANSISTOR 2SC3402
Q1051	8-729-107-98	TRANSISTOR 2SC3622A-L
Q1101	8-729-224-63	TRANSISTOR 2SK246BL
Q1102	8-729-820-23	TRANSISTOR 2SC3330S
Q1103	9-986-159-01	TRANSISTOR 2SA1348
Q1104	8-729-801-93	TRANSISTOR 2SD1387
Q1105	8-729-801-83	TRANSISTOR 2SB1013
Q1106	9-986-159-01	TRANSISTOR 2SA1348
Q1107	8-729-806-28	TRANSISTOR 2SC3402
Q1151	8-729-224-63	TRANSISTOR 2SK246BL
Q1152	8-729-820-23	TRANSISTOR 2SC3330S
Q1201	8-729-820-23	TRANSISTOR 2SC3330S
Q1301	8-729-108-06	TRANSISTOR 2SC1841
Q1303	8-729-806-16	TRANSISTOR 2SA1346
Q1351	8-729-108-06	TRANSISTOR 2SC1841
Q1401	8-729-820-23	TRANSISTOR 2SC3330S
Q1402	8-729-820-23	TRANSISTOR 2SC3330S
Q1403	8-729-804-67	TRANSISTOR 2SB1133-R
Q2001	8-729-820-23	TRANSISTOR 2SC3330S
Q2002	8-729-820-23	TRANSISTOR 2SC3330S
Q2003	8-729-820-23	TRANSISTOR 2SC3330S
RESISTOR		
R1001	1-249-441-11	CARBON 100K 5% 1/4W
R1002	1-249-417-11	CARBON 1K 5% 1/4W
R1003	1-249-441-11	CARBON 100K 5% 1/4W
R1004	1-249-416-11	CARBON 820 5% 1/4W
R1005	1-247-897-11	CARBON 560K 5% 1/4W
R1006	1-249-437-11	CARBON 47K 5% 1/4W
R1007	1-249-441-11	CARBON 100K 5% 1/4W
R1008	1-249-409-11	CARBON 220 5% 1/4W
R1009	1-249-409-11	CARBON 220 5% 1/4W
R1010	1-249-417-11	CARBON 1K 5% 1/4W
R1011	1-249-417-11	(WG, IT)...CARBON 1K 5% 1/4W
R1012	1-247-903-00	CARBON 1M 5% 1/4W
R1013	1-249-413-11	CARBON 470 5% 1/4W
R1014	1-247-897-11	CARBON 560K 5% 1/4W
R1015	1-249-417-11	CARBON 1K 5% 1/4W
R1017	1-249-417-11	CARBON 1K 5% 1/4W
R1020	1-247-903-00	CARBON 1M 5% 1/4W
R1021	1-247-897-11	CARBON 560K 5% 1/4W
R1022	1-247-897-11	CARBON 560K 5% 1/4W
R1023	1-247-897-11	CARBON 560K 5% 1/4W
R1033	1-249-433-11	CARBON 22K 5% 1/4W
R1034	1-249-441-11	CARBON 100K 5% 1/4W
R1035	1-249-417-11	CARBON 1K 5% 1/4W
R1040	1-249-433-11	CARBON 22K 5% 1/4W
R1041	1-249-433-11	CARBON 22K 5% 1/4W
R1042	1-249-433-11	CARBON 22K 5% 1/4W
R1043	1-249-433-11	CARBON 22K 5% 1/4W
R1044	1-247-901-11	CARBON 820K 5% 1/4W
R1045	1-249-433-11	CARBON 22K 5% 1/4W
R1046	1-249-425-11	CARBON 4.7K 5% 1/4W
R1051	1-249-441-11	CARBON 100K 5% 1/4W
R1052	1-249-417-11	CARBON 1K 5% 1/4W

Note: The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description				Ref.No	Part No.	Description			
C1203	1-124-464-11	ELECT	0.22MF	20%	50V	C2104	1-124-925-11	ELECT	2.2MF	20%	50V
C1204	1-124-234-00	ELECT	22MF	20%	16V	C2105	1-162-219-31	CERAMIC	68PF	5%	50V
C1205	1-161-327-00	CERAMIC	0.0033MF	20%	16V	C2106	1-124-908-11	ELECT	22MF	20%	50V
C1206	1-124-589-11	ELECT	47MF	20%	16V	C2107	1-130-488-00	MYLAR	0.027MF	5%	50V
C1207	1-162-596-00	CERAMIC	0.022MF		25V	C2108	1-130-488-00	MYLAR	0.027MF	5%	50V
C1301	1-162-286-31	CERAMIC	220PF	10%	50V	C2109	1-162-219-31	CERAMIC	68PF	5%	50V
C1302	1-123-875-11	ELECT	10MF	20%	50V	C2110	1-124-908-11	ELECT	22MF	20%	50V
C1304	1-162-286-31	CERAMIC	220PF	10%	50V	C2111	1-124-925-11	ELECT	2.2MF	20%	50V
C1305	1-126-176-11	ELECT	220MF	20%	6.3V	C2112	1-124-925-11	ELECT	2.2MF	20%	50V
C1306	1-124-910-11	ELECT	47MF	20%	50V	C2113	1-161-379-00	CERAMIC	0.01MF	20%	16V
C1307	1-124-122-11	ELECT	100MF	20%	50V	C2114	1-161-379-00	CERAMIC	0.01MF	20%	16V
C1309	1-124-908-11	ELECT	22MF	20%	50V	C2115	1-162-219-31	CERAMIC	68PF	5%	50V
C1310	1-130-493-00	MYLAR	0.068MF	5%	50V	C2116	1-124-925-11	ELECT	2.2MF	20%	50V
C1311	1-130-493-00	MYLAR	0.068MF	5%	50V	C2117	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C1312	1-126-176-11	ELECT	220MF	20%	6.3V	C2118	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C1313	1-126-176-11	ELECT	220MF	20%	6.3V	C2119	1-162-219-31	CERAMIC	68PF	5%	50V
C1314	1-123-875-11	ELECT	10MF	20%	50V	C2120	1-124-925-11	ELECT	2.2MF	20%	50V
C1315	1-126-101-11	ELECT	100MF	20%	16V	C2121	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C1316	1-130-493-00	(WG, IT)....MYLAR	0.068MF	5%	50V	C2122	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C1317	1-130-493-00	(WG, IT)....MYLAR	0.068MF	5%	50V	C2123	1-162-219-31	CERAMIC	68PF	5%	50V
C1318	1-161-379-00	(WG, IT)....CERAMIC	0.01MF	20%	16V	C2124	1-124-925-11	ELECT	2.2MF	20%	50V
C1319	1-161-494-00	CERAMIC	0.022MF		25V	C2125	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C1351	1-162-286-31	CERAMIC	220PF	10%	50V	C2126	1-161-327-00	CERAMIC	0.0033MF	20%	16V
C1352	1-123-875-11	ELECT	10MF	20%	50V	C2127	1-162-219-31	CERAMIC	68PF	5%	50V
C1354	1-162-286-31	CERAMIC	220PF	10%	50V	C2128	1-124-925-11	ELECT	2.2MF	20%	50V
C1355	1-126-176-11	ELECT	220MF	20%	6.3V	C2131	1-124-925-11	ELECT	2.2MF	20%	50V
C1356	1-124-910-11	ELECT	47MF	20%	50V	C2132	1-161-494-00	CERAMIC	0.022MF		25V
C1357	1-124-122-11	ELECT	100MF	20%	50V	C2133	1-126-101-11	ELECT	100MF	20%	16V
C1358	1-130-495-00	MYLAR	0.1MF	5%	50V	CF2001	1-567-738-11	VIBRATOR, CERAMIC			
C1360	1-130-493-00	MYLAR	0.068MF	5%	50V	CN201	*1-564-506-11	PLUG, CONNECTOR 3P			
C1361	1-130-493-00	MYLAR	0.068MF	5%	50V	CN202	*1-564-511-41	PLUG, CONNECTOR 8P			
C1366	1-130-493-00	(WG, IT)....MYLAR	0.068MF	5%	50V	CN702	*1-564-510-11	PLUG, CONNECTOR 7P			
C1367	1-130-493-00	(WG, IT)....MYLAR	0.068MF	5%	50V	CN706	*1-564-340-51	PIN, CONNECTOR 6P			
C1368	1-161-379-00	(WG, IT)....CERAMIC	0.01MF	20%	16V	CN1001	1-565-258-11	JACK, PIN 4P (PHONO, CD)			
C1401	△1-161-744-00	CERAMIC	0.01MF		400V	CN1002	1-565-258-21	JACK, PIN 4P (DAT IN/OUT)			
C1402	1-102-355-00	CERAMIC	0.01MF		250V	CN1003	*1-566-858-11	SOCKET, CONNECTOR 11P (SYSTEM CONTROL 1)			
C1403	1-102-355-00	CERAMIC	0.01MF		250V	CN1201	1-565-117-11	JACK, LARGE TYPE (MIC)			
C1404	1-124-912-11	ELECT	330MF	20%	50V	CN1301	1-507-983-11	JACK (LARGE TYPE) (HEADPHONES)			
C1405	1-126-224-11	ELECT	4700MF	20%	42V	CN1302	1-565-352-21	JACK, PIN 2P (SURROUND SPEAKER)			
C1406	1-126-224-11	ELECT	4700MF	20%	42V	CN1401	△1-555-750-00	(AEP, WG, IT)....CORD, POWER			
C1407	1-126-103-11	ELECT	470MF	20%	16V	CN1401	△1-556-035-00	(UK)....CORD, POWER			
C1408	1-124-563-11	ELECT	2200MF	20%	25V	CN1402	△1-526-794-11	(AEP, WG, IT)....OUTLET, AC			
C1409	1-124-563-11	ELECT	2200MF	20%	25V	CN1402	△1-526-751-00	(UK)....OUTLET, AC			
C1410	1-124-908-11	ELECT	22MF	20%	50V	CN1403	△1-526-794-11	(AEP, WG, IT)....OUTLET, AC			
C1411	1-124-122-11	ELECT	100MF	20%	50V	CN1404	*1-566-859-11	SOCKET, CONNECTOR 15P (SYSTEM CONTROL 2)			
C1412	1-126-103-11	ELECT	470MF	20%	16V	CN1405	*1-566-210-11	(UK)....PIN, CONNECTOR 3P			
C1413	1-126-103-11	ELECT	470MF	20%	16V	CNJ707	*1-564-341-71	PIN, CONNECTOR 7P			
C1414	1-124-925-11	ELECT	2.2MF	20%	50V	CNP707	*1-566-452-11	HOUSING, CONNECTOR 7P			
C1415	1-124-556-11	(UK)....ELECT	2200MF	20%	16V	CP2101	1-233-081-11	COMPOSITION CIRCUIT BLOCK			
C1416	1-124-927-11	ELECT	4.7MF	20%	50V	CP2102	1-233-081-11	COMPOSITION CIRCUIT BLOCK			
C1417	1-161-377-00	(WG, IT)....CERAMIC	0.0047MF	30%	50V	CP2103	1-233-081-11	COMPOSITION CIRCUIT BLOCK			
C1418	1-161-377-00	(WG, IT)....CERAMIC	0.0047MF	30%	50V	CP2104	1-233-151-11	COMPOSITION CIRCUIT BLOCK			
C1421	1-101-005-00	CERAMIC	0.022MF		50V	CP2105	1-233-151-11	COMPOSITION CIRCUIT BLOCK			
C1422	1-101-005-00	CERAMIC	0.022MF		50V	CP2106	1-233-151-11	COMPOSITION CIRCUIT BLOCK			
C1423	1-101-005-00	CERAMIC	0.022MF		50V	D1001	1-806-937-11	DIODE GMA01			
C1424	1-126-101-11	ELECT	100MF	20%	10V	D1002	1-806-937-11	DIODE GMA01			
C2001	1-162-294-31	CERAMIC	0.001MF	10%	50V	D1003	1-806-937-11	DIODE GMA01			
C2002	1-124-477-11	ELECT	47MF	20%	16V	D1004	8-719-001-09	DIODE UZL-9L3			
C2003	1-161-494-00	CERAMIC	0.022MF		25V	D1005	1-806-937-11	DIODE GMA01			
C2004	1-162-211-31	CERAMIC	33PF	5%	50V	D1101	1-806-937-11	DIODE GMA01			
C2005	1-162-211-31	CERAMIC	33PF	5%	50V	D1102	1-806-937-11	DIODE GMA01			
C2101	1-161-374-11	CERAMIC	0.0015MF	20%	16V	D1151	1-806-937-11	DIODE GMA01			
C2102	1-124-908-11	ELECT	22MF	20%	50V						
C2103	1-124-908-11	ELECT	22MF	20%	50V						

Note: The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Ref.No	Part No.	Description
D1152	1-806-937-11	DIODE GMA01
D1301	1-806-937-11	DIODE GMA01
D1302	1-806-937-11	DIODE GMA01
D1303	8-719-200-77	DIODE 10E2N
D1304	1-806-937-11	DIODE GMA01
D1305	1-806-937-11	DIODE GMA01
D1351	1-806-937-11	DIODE GMA01
D1401	8-719-302-38	DIODE RBV-602-01
D1402	8-719-200-77	DIODE 10E2N
D1403	8-719-200-77	DIODE 10E2N
D1404	8-719-200-77	DIODE 10E2N
D1405	8-719-200-77	DIODE 10E2N
D1406	8-719-200-77	DIODE 10E2N
D1407	8-719-200-77	DIODE 10E2N
D1408	8-719-911-50	DIODE HZC1
D1409	8-719-002-57	DIODE UZL-30H
D1410	8-719-160-23	DIODE RD5.1F-B2
D2001	1-807-689-11	DIODE SLP9070
D2002	1-807-689-11	DIODE SLP9070
D2003	8-719-969-90	DIODE SLP3070K
D2004	8-719-969-90	DIODE SLP3070K
D2005	8-719-969-90	DIODE SLP3070K
D2006	8-719-969-90	DIODE SLP3070K
D2007	8-719-969-90	DIODE SLP3070K
D2008	1-806-937-11	DIODE GMA01
D2009	1-806-937-11	DIODE GMA01
D2101	1-806-937-11	DIODE GMA01
D2102	1-806-937-11	DIODE GMA01
D2103	1-806-937-11	DIODE GMA01
D2104	1-806-937-11	DIODE GMA01
D2105	1-806-937-11	DIODE GMA01
D2106	1-806-937-11	DIODE GMA01
D2107	1-806-937-11	DIODE GMA01
D2108	1-806-937-11	DIODE GMA01
D2109	1-806-937-11	DIODE GMA01
D2110	1-806-937-11	DIODE GMA01
D2111	1-806-937-11	DIODE GMA01
D2112	1-806-937-11	DIODE GMA01
D2121	8-719-000-63	DIODE UZL-6M3
F1401 Δ .1-532-259-00	FUSE, TIME-LAG	
F1402 Δ .1-532-259-00	FUSE, TIME-LAG	
F1403 Δ .1-532-203-00	FUSE, TIME-LAG	
F1404 Δ .1-532-203-00	FUSE, TIME-LAG	
FL2001	1-519-441-11	INDICATOR TUBE, FLUORESCENT
IC1001	8-759-600-02	IC M5218LK
IC1002	8-759-800-37	IC LC4066BH
IC1003	8-759-802-52	IC LC7818
IC1101	8-759-600-02	IC M5218L
IC1102	8-759-602-04	IC M5226P
IC1152	8-759-602-04	IC M5226P
IC1301	8-749-941-52	IC STK4152II
IC1302	8-759-111-68	IC UPC1237HA
IC1401	8-759-604-32	IC M5F7810
IC1402	8-759-604-50	IC M5F7910
IC1403	8-759-604-33	(UK)...IC M5F7812
IC2001	8-759-800-07	IC LC6527CK-3467
IC2002	8-749-920-03	IC GP1U52
IC2101	8-759-600-02	IC M5218L
IC2102	8-759-600-02	IC M5218L
IC2103	8-759-600-02	IC M5218L
IC2104	8-759-820-07	IC LC7566
L1301	*1-420-872-00	COIL, AIR CORE (1.9UH)
L1351	*1-420-872-00	COIL, AIR CORE (1.9UH)
L1401	1-410-564-11	INDUCTOR 100UH

Ref.No	Part No.	Description
L1402	1-410-564-11	INDUCTOR 100UH
L1403	1-410-564-11	INDUCTOR 100UH
M1107	1-238-079-11	RES, VAR, CARBON (MOTOR) 100KX2
Q1001	8-729-107-98	TRANSISTOR 2SC3622A-L
Q1002	9-986-159-01	TRANSISTOR 2SA1348
Q1003	8-729-806-16	TRANSISTOR 2SA1346
Q1004	8-729-820-10	TRANSISTOR 2SA1317-SU
Q1005	8-729-806-28	TRANSISTOR 2SC3402
Q1006	8-729-820-23	TRANSISTOR 2SC3330S
Q1007	8-729-806-28	TRANSISTOR 2SC3402
Q1051	8-729-107-98	TRANSISTOR 2SC3622A-L
Q1101	8-729-224-63	TRANSISTOR 2SK246BL
Q1102	8-729-820-23	TRANSISTOR 2SC3330S
Q1103	9-986-159-01	TRANSISTOR 2SA1348
Q1104	8-729-801-93	TRANSISTOR 2SD1387
Q1105	8-729-801-83	TRANSISTOR 2SB1013
Q1106	9-986-159-01	TRANSISTOR 2SA1348
Q1107	8-729-806-28	TRANSISTOR 2SC3402
Q1151	8-729-224-63	TRANSISTOR 2SK246BL
Q1152	8-729-820-23	TRANSISTOR 2SC3330S
Q1201	8-729-820-23	TRANSISTOR 2SC3330S
Q1301	8-729-108-06	TRANSISTOR 2SC1841
Q1303	8-729-806-16	TRANSISTOR 2SA1346
Q1351	8-729-108-06	TRANSISTOR 2SC1841
Q1401	8-729-820-23	TRANSISTOR 2SC3330S
Q1402	8-729-820-23	TRANSISTOR 2SC3330S
Q1403	8-729-804-67	TRANSISTOR 2SB1133-R
Q2001	8-729-820-23	TRANSISTOR 2SC3330S
Q2002	8-729-820-23	TRANSISTOR 2SC3330S
Q2003	8-729-820-23	TRANSISTOR 2SC3330S
RESISTOR		
R1001	1-249-441-11	CARBON 100K 5% 1/4W
R1002	1-249-417-11	CARBON 1K 5% 1/4W
R1003	1-249-441-11	CARBON 100K 5% 1/4W
R1004	1-249-416-11	CARBON 820 5% 1/4W
R1005	1-247-897-11	CARBON 560K 5% 1/4W
R1006	1-249-437-11	CARBON 47K 5% 1/4W
R1007	1-249-441-11	CARBON 100K 5% 1/4W
R1008	1-249-409-11	CARBON 220 5% 1/4W
R1009	1-249-409-11	CARBON 220 5% 1/4W
R1010	1-249-417-11	CARBON 1K 5% 1/4W
R1011	1-249-417-11	(WG, IT)...CARBONIK 5% 1/4W
R1012	1-247-903-00	CARBON 1M 5% 1/4W
R1013	1-249-413-11	CARBON 470 5% 1/4W
R1014	1-247-897-11	CARBON 560K 5% 1/4W
R1015	1-249-417-11	CARBON 1K 5% 1/4W
R1017	1-249-417-11	CARBON 1K 5% 1/4W
R1020	1-247-903-00	CARBON 1M 5% 1/4W
R1021	1-247-897-11	CARBON 560K 5% 1/4W
R1022	1-247-897-11	CARBON 560K 5% 1/4W
R1023	1-247-897-11	CARBON 560K 5% 1/4W
R1033	1-249-433-11	CARBON 22K 5% 1/4W
R1034	1-249-441-11	CARBON 100K 5% 1/4W
R1035	1-249-417-11	CARBON 1K 5% 1/4W
R1040	1-249-433-11	CARBON 22K 5% 1/4W
R1041	1-249-433-11	CARBON 22K 5% 1/4W
R1042	1-249-433-11	CARBON 22K 5% 1/4W
R1043	1-249-433-11	CARBON 22K 5% 1/4W
R1044	1-247-901-11	CARBON 820K 5% 1/4W
R1045	1-249-433-11	CARBON 22K 5% 1/4W
R1046	1-249-425-11	CARBON 4.7K 5% 1/4W
R1051	1-249-441-11	CARBON 100K 5% 1/4W
R1052	1-249-417-11	CARBON 1K 5% 1/4W

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Ref.No	Part No.	Description	Ref.No	Part No.	Description						
R1053	1-249-441-11	CARBON	100K	5%	1/4W	R1163	1-249-412-11	CARBON	390	5%	1/4W
R1054	1-249-416-11	CARBON	820	5%	1/4W	R1164	1-249-405-11	CARBON	100	5%	1/4W
R1055	1-247-897-11	CARBON	560K	5%	1/4W	R1170	1-249-425-11	CARBON	4.7K	5%	1/4W
R1056	1-249-437-11	CARBON	47K	5%	1/4W	R1201	1-249-441-11	CARBON	100K	5%	1/4W
R1057	1-249-441-11	CARBON	100K	5%	1/4W	R1202	1-249-441-11	CARBON	100K	5%	1/4W
R1058	1-249-409-11	CARBON	220	5%	1/4W	R1203	1-249-417-11	CARBON	1K	5%	1/4W
R1059	1-249-409-11	CARBON	220	5%	1/4W	R1204	1-249-426-11	CARBON	5.6K	5%	1/4W
R1060	1-249-417-11	CARBON	1K	5%	1/4W	R1205	1-249-431-11	CARBON	15K	5%	1/4W
R1061	1-249-417-11	(WG, IT)....CARBON	1K	5%	1/4W	R1206	1-249-441-11	CARBON	100K	5%	1/4W
R1062	1-247-903-00	CARBON	1M	5%	1/4W	R1207	1-249-421-11	CARBON	2.2K	5%	1/4W
R1063	1-249-413-11	CARBON	470	5%	1/4W	R1208	1-249-417-11	CARBON	1K	5%	1/4W
R1064	1-247-897-11	CARBON	560K	5%	1/4W	R1303	1-249-417-11	CARBON	1K	5%	1/4W
R1065	1-249-417-11	CARBON	1K	5%	1/4W	R1304	1-249-438-11	CARBON	56K	5%	1/4W
R1067	1-249-417-11	CARBON	1K	5%	1/4W	R1305	1-249-414-11	CARBON	560	5%	1/4W
R1070	1-247-903-00	CARBON	1M	5%	1/4W	R1306	1-249-438-11	CARBON	56K	5%	1/4W
R1071	1-247-897-11	CARBON	560K	5%	1/4W	R1307	1-247-756-11	CARBON	2.2K	5%	1/2W
R1072	1-247-897-11	CARBON	560K	5%	1/4W	R1308	1-247-756-11	CARBON	2.2K	5%	1/2W
R1073	1-247-897-11	CARBON	560K	5%	1/4W	R1309	Δ.1-212-881-11	FUSIBLE	100	5%	1/4W
R1083	1-249-433-11	CARBON	22K	5%	1/4W	R1310	1-247-752-11	CARBON	1K	5%	1/2W
R1085	1-249-417-11	CARBON	1K	5%	1/4W	R1311	1-247-752-11	CARBON	1K	5%	1/2W
R1090	1-249-429-11	CARBON	10K	5%	1/4W	R1312	1-249-417-11	CARBON	1K	5%	1/4W
R1091	1-249-429-11	CARBON	10K	5%	1/4W	R1313	1-249-431-11	CARBON	15K	5%	1/4W
R1092	1-249-441-11	CARBON	100K	5%	1/4W	R1314	1-217-156-00	RES, METAL PLATE	0.22	5W	
R1093	1-249-417-11	CARBON	1K	5%	1/4W	R1315	1-249-441-11	CARBON	100K	5%	1/4W
R1094	1-249-433-11	CARBON	22K	5%	1/4W	R1316	1-247-727-11	CARBON	10	5%	1/2W
R1095	1-249-433-11	CARBON	22K	5%	1/4W	R1317	1-247-727-11	CARBON	10	5%	1/2W
R1096	1-249-433-11	CARBON	22K	5%	1/4W	R1318	1-249-438-11	CARBON	56K	5%	1/4W
R1097	1-249-433-11	CARBON	22K	5%	1/4W	R1319	1-249-429-11	CARBON	10K	5%	1/4W
R1098	1-249-433-11	CARBON	22K	5%	1/4W	R1320	1-249-441-11	CARBON	100K	5%	1/4W
R1101	1-249-441-11	CARBON	100K	5%	1/4W	R1321	1-249-431-11	CARBON	15K	5%	1/4W
R1102	1-249-417-11	CARBON	1K	5%	1/4W	R1322	1-249-437-11	CARBON	47K	5%	1/4W
R1103	1-249-441-11	CARBON	100K	5%	1/4W	R1323	1-247-764-11	CARBON	10K	5%	1/2W
R1104	1-249-425-11	CARBON	4.7K	5%	1/4W	R1324	Δ.1-216-430-11	METAL OXIDE	390	5%	1W
R1105	1-249-425-11	CARBON	4.7K	5%	1/4W	R1325	1-247-750-11	CARBON	680	5%	1/2W
R1106	1-249-441-11	CARBON	100K	5%	1/4W	R1326	1-247-727-11	(WG, IT)....CARBON	10	5%	1/2W
R1107	1-247-903-00	CARBON	1M	5%	1/4W	R1353	1-249-417-11	CARBON	1K	5%	1/4W
R1108	1-249-428-11	CARBON	8.2K	5%	1/4W	R1354	1-249-438-11	CARBON	56K	5%	1/4W
R1109	1-249-433-11	CARBON	22K	5%	1/4W	R1355	1-249-414-11	CARBON	560	5%	1/4W
R1110	1-249-422-11	CARBON	2.7K	5%	1/4W	R1356	1-249-438-11	CARBON	56K	5%	1/4W
R1111	1-247-895-00	CARBON	470K	5%	1/4W	R1357	1-247-756-11	CARBON	2.2K	5%	1/2W
R1112	1-249-427-11	CARBON	6.8K	5%	1/4W	R1358	1-247-756-11	CARBON	2.2K	5%	1/2W
R1113	1-249-412-11	CARBON	390	5%	1/4W	R1359	Δ.1-212-881-11	FUSIBLE	100	5%	1/4W
R1114	1-249-405-11	CARBON	100	5%	1/4W	R1362	1-249-417-11	CARBON	1K	5%	1/4W
R1115	1-249-429-11	CARBON	10K	5%	1/4W	R1363	1-249-431-11	CARBON	15K	5%	1/4W
R1118	1-249-425-11	CARBON	4.7K	5%	1/4W	R1364	1-217-156-00	RES, METAL PLATE	2		
R1120	1-249-425-11	CARBON	4.7K	5%	1/4W	R1365	1-249-441-11	CARBON	100K	5%	1/4W
R1121	1-249-417-11	CARBON	1K	5%	1/4W	R1366	1-247-727-11	CARBON	10	5%	1/2W
R1122	1-249-417-11	CARBON	1K	5%	1/4W	R1367	1-247-727-11	CARBON	10	5%	1/2W
R1123	1-249-394-11	CARBON	12	5%	1/4W	R1368	1-249-437-11	CARBON	47K	5%	1/4W
R1124	1-249-394-11	CARBON	12	5%	1/4W	R1375	1-247-750-11	CARBON	680	5%	1/2W
R1125	1-249-420-11	CARBON	1.8K	5%	1/4W	R1376	1-247-727-11	(WG, IT)....CARBON	10	5%	1/2W
R1127	1-247-727-11	CARBON	10	5%	1/2W	R1401	1-249-409-11	CARBON	220	5%	1/4W
R1128	1-247-727-11	CARBON	10	5%	1/2W	R1402	1-249-422-11	CARBON	2.7K	5%	1/4W
R1151	1-249-441-11	CARBON	100K	5%	1/4W	R1403	1-249-428-11	CARBON	8.2K	5%	1/4W
R1152	1-249-417-11	CARBON	1K	5%	1/4W	R1404	1-249-425-11	CARBON	4.7K	5%	1/4W
R1153	1-249-441-11	CARBON	100K	5%	1/4W	R1405	1-249-429-11	CARBON	10K	5%	1/4W
R1154	1-249-425-11	CARBON	4.7K	5%	1/4W	R1406	1-249-441-11	CARBON	100K	5%	1/4W
R1155	1-249-425-11	CARBON	4.7K	5%	1/4W	R1407	1-249-426-11	CARBON	5.6K	5%	1/4W
R1156	1-249-441-11	CARBON	100K	5%	1/4W	R1408	Δ.1-212-934-00	FUSIBLE	1	5%	1/2W
R1157	1-247-903-00	CARBON	1M	5%	1/4W	R1409	Δ.1-212-849-00	FUSIBLE	4.7	5%	1/4W
R1158	1-249-428-11	CARBON	8.2K	5%	1/4W	R1410	Δ.1-212-849-00	FUSIBLE	4.7	5%	1/4W
R1159	1-249-433-11	CARBON	22K	5%	1/4W	R2001	1-247-746-11	CARBON	390	5%	1/2W
R1160	1-249-422-11	CARBON	2.7K	5%	1/4W	R2002	1-247-749-11	CARBON	560	5%	1/2W
R1161	1-247-895-00	CARBON	470K	5%	1/4W	R2003	1-247-749-11	CARBON	560	5%	1/2W
R1162	1-249-427-11	CARBON	6.8K	5%	1/4W	R2004	1-247-749-11	CARBON	560	5%	1/2W

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Ref.No	Part No.	Description	Value	Tolerance	Power
R2005	1-247-749-11	CARBON	560	5%	1/2W
R2006	1-247-749-11	CARBON	560	5%	1/2W
R2007	1-249-429-11	CARBON	10K	5%	1/4W
R2010	1-249-417-11	CARBON	1K	5%	1/4W
R2011	1-249-417-11	CARBON	1K	5%	1/4W
R2012	1-249-429-11	CARBON	10K	5%	1/4W
R2013	1-249-429-11	CARBON	10K	5%	1/4W
R2101	1-249-409-11	CARBON	220	5%	1/4W
R2121	1-249-441-11	CARBON	100K	5%	1/4W
R2122	1-249-432-11	CARBON	18K	5%	1/4W
R2123	1-249-441-11	CARBON	100K	5%	1/4W
R2124	1-247-903-00	CARBON	1M	5%	1/4W
R2125	1-249-441-11	CARBON	100K	5%	1/4W
R2126	1-249-417-11	CARBON	1K	5%	1/4W
R2127	1-249-405-11	CARBON	100	5%	1/4W
R2128	1-247-885-00	CARBON	180K	5%	1/4W
R2129	1-249-429-11	CARBON	10K	5%	1/4W
R2130	1-249-412-11	CARBON	390	5%	1/4W
R2131	1-249-441-11	CARBON	100K	5%	1/4W
R2132	1-249-423-11	CARBON	3.3K	5%	1/4W
R2133	1-247-903-00	CARBON	1M	5%	1/4W
R2134	1-247-903-00	CARBON	1M	5%	1/4W
R2135	1-249-441-11	CARBON	100K	5%	1/4W
R2136	1-249-440-11	CARBON	82K	5%	1/4W
R2137	1-249-423-11	CARBON	3.3K	5%	1/4W
R2138	1-247-901-11	CARBON	820K	5%	1/4W
R2139	1-249-441-11	CARBON	100K	5%	1/4W
R2140	1-249-439-11	CARBON	68K	5%	1/4W
R2141	1-249-423-11	CARBON	3.3K	5%	1/4W
R2142	1-247-899-11	CARBON	680K	5%	1/4W
R2143	1-249-441-11	CARBON	100K	5%	1/4W
R2144	1-249-433-11	CARBON	22K	5%	1/4W
R2145	1-249-417-11	CARBON	1K	5%	1/4W
R2146	1-247-887-00	CARBON	220K	5%	1/4W
R2147	1-249-441-11	CARBON	100K	5%	1/4W
R2148	1-249-426-11	CARBON	5.6K	5%	1/4W
R2149	1-249-439-11	CARBON	68K	5%	1/4W
R2150	1-249-413-11	CARBON	470	5%	1/4W
R2151	1-249-417-11	CARBON	1K	5%	1/4W
R2152	1-249-441-11	CARBON	100K	5%	1/4W
R2153	1-249-441-11	CARBON	100K	5%	1/4W
R2175	1-249-441-11	CARBON	100K	5%	1/4W
RV1101	1-238-065-21	RES, VAR, SLIDE 250K/250K (GEQ 100Hz)			
RV1102	1-238-065-21	RES, VAR, SLIDE 250K/250K (GEQ 330Hz)			
RV1103	1-238-065-21	RES, VAR, SLIDE 250K/250K (GEQ 1kHz)			
RV1104	1-238-065-21	RES, VAR, SLIDE 250K/250K (GEQ 3.3kHz)			
RV1105	1-238-065-21	RES, VAR, SLIDE 250K/250K (GEQ 10kHz)			
RV1106	1-237-882-11	RES, VAR, CARBON 100K (BALANCE)			
RV1107	1-238-079-11	RES, VAR, CARBON(MOTOR) 100KX2 (VOLUME)			
RV1201	1-238-100-11	RES, VAR, CARBON 100K/100K (MIC LEVEL)			
RY1301	1-515-501-00	RELAY			
S1101	1-571-292-11	SWITCH, PUSH (1 KEY) (DOL)			
S1102	1-571-292-11	SWITCH, PUSH (1 KEY) (SURROUND)			
S1401	▲1-554-920-11	SWITCH, PUSH (AC POWER) (1 KEY) (POWER)			
S2001	1-554-303-21	SWITCH, KEY BOARD.(EQUALIZER RECORDING)			
S2002	1-554-303-21	SWITCH, KEY BOARD (PHONO)			
S2003	1-554-303-21	SWITCH, KEY BOARD (TUNER)			
S2004	1-554-303-21	SWITCH, KEY BOARD (CD)			
S2005	1-554-303-21	SWITCH, KEY BOARD (TAPE)			
S2006	1-554-303-21	SWITCH, KEY BOARD (DAT)			
T1401	▲1-449-369-11	TRANSFORMER, POWER			
TM1301	1-536-705-00	TERMINAL BOARD (SP) (SPEAKER)			

Note: The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

Sony Corporation
Audio Group

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